



SEQUENCE LISTING

<110> RABBITAZAR  
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DONEGAN, JAMES J.  
LIU, DAKAI  
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ENGELHARDT, DEAN L.

<120> NOVEL PROPERTY EFFECTING AND/OR PROPERTY EXHIBITING  
COMPOSITIONS FOR THERAPEUTIC AND DIAGNOSTIC USE

<130> ENZ-53 (D2)

<140> 08/978,634

<141> 1997-11-25

<150> 08/574,443

<151> 1995-12-15

<160> 63

<170> PatentIn Ver. 3.2

<210> 1

<211> 20

<212> PRT

<213> Influenza B virus

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1 5 10 15

Met Ile Ala Gly  
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<210> 2

<211> 20

<212> DNA

<213> Bacteriophage T7

<400> 2

tgctctctaa gggctctactc

20

<210> 3

<211> 15

<212> DNA

<213> Simian virus 40

<400> 3

ctctaaggta aatat

15

<210> 4  
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 uguauuuuag ggucucacuc 19  
  
 <210> 9  
 <211> 20  
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 <400> 9  
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 <210> 10  
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 <213> Artificial Sequence  
  
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<400> 10  
ggaattcgtc tcgagctctg atcaccacca tggacacgat taacatcgc 49

<210> 11  
<211> 55  
<212> DNA  
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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 11  
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<210> 12  
<211> 46  
<212> DNA  
<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 12  
ggaattcgtc tcggagaaag gtaaaattct ctgacatoga actggc 46

<210> 13  
<211> 33  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 13  
gactagtggc ctccccttag agagcatgac agc 33

<210> 14  
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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 14  
ggaattcggc ctcggtgcta ctcggtggcg agg 33

<210> 15  
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<400> 15  
gactagtcgt tacgcgaacg caaagtc 27

<210> 16  
<211> 36  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 16  
ggaattcgtc tctaaggtaa atataaaatt tttaag 36

<210> 17  
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<212> DNA  
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<400> 17  
gactagtcgt ctctgaccct aaaatacaca aacaattaga 40

<210> 18  
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<212> DNA  
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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 18  
ggaattcgtc tcgagctctg atcaccacca tggacacgat taacatcgct aagaacgaca 60  
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<210> 19  
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ctcctccaaa aaa

73

<210> 21

<211> 77

<212> DNA

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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 21

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<210> 22

<211> 13

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 22

ggaattcgtc tcg 13

<210> 23

<211> 33

<212> DNA

<213> Artificial Sequence

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<400> 23

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<210> 24

<211> 17

<212> DNA

<213> Artificial Sequence

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<400> 24

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<210> 25

<211> 29

<212> DNA

<213> Artificial Sequence

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<210> 26  
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<210> 27  
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atgttaatcg tgtccatggt gtagtcaga gctcgagacg aattcc 106

<210> 28  
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<212> DNA  
<213> Bacteriophage T7

<400> 28  
atggacacga ttaacatcgc taagaacgac ttctctgaca tcgaactggc 50

<210> 29  
<211> 50  
<212> DNA  
<213> Bacteriophage T7

<400> 29  
gccagttcga tgcagagaa gtcgttctta gcgatgttaa tcgtgtccat 50

<210> 30  
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<400> 30  
atggacacga ttaacatcgc taagaacgac actcctccaa aaaagagaaa ggtaaaattc 60  
tctgacatcg aactggc 77

<210> 31  
<211> 77  
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<400> 31  
gccagttcga tgtcagagaa ttttaccttt ctcttttttg gaggagtgtc gttcttagcg 60  
atgttaatcg tgtccat 77

<210> 32  
<211> 69  
<212> DNA  
<213> Artificial Sequence

<220>  
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<400> 32  
gatcattaga ccagatctga gcctgggagc tctctggcta actagggaac ccactgctta 60  
agcctcaag 69

<210> 33  
<211> 69  
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<220>  
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<400> 33  
gatccttgag gcttaagcag tgggttcct agttagccag agagctccca ggctcagatc 60  
tggtctaata 69

<210> 34  
<211> 61  
<212> DNA  
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<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 34  
gatcacctta ggctctccta tggcaggaag aagcggagac agcgacgaag acctcctcaa 60  
g 61

<210> 35  
<211> 61  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 35  
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<210> 36  
<211> 62  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 36  
gatcatagtg aatagagtta ggcagggata ctcaccatta tcgtttcaga cccacctccc 60  
ag 62

<210> 37  
<211> 62  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 37  
gatcctggga ggtgggtctg aaacgataat ggtgagtatc cctgcctaac tctattcact 60  
at 62

<210> 38  
<211> 30  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 38  
aatctagagc taacaaagcc cgaaaggaag 30

<210> 39  
<211> 28  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 39  
ttctgcagat atagttcctc ctttcagc 28

<210> 40  
<211> 70  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide



<400> 40  
tcgagccatg gcttaaggat ccgtacgtcc ggagctagcg ggcccatcga tactagttaa 60  
atgcagatct 70

<210> 41  
<211> 70  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 41  
ctagagatct gcatttaact agtatcgatg ggcccgctag ctccggacgt acggatcctt 60  
aagccatggc 70

<210> 42  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 42  
catgaaatta attcgactca ctatacgga 29

<210> 43  
<211> 29  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 43  
gatctccgta tagtgagtcg aattaattt 29

<210> 44  
<211> 72  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 44  
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atctggtcta at 72

<210> 45  
<211> 72  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 45

ccggattaga ccagatctga gcctgggagc tctctggcta actagggaac cactgctta 60  
agcctcaatc cg 72

<210> 46

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 46

gatccggacc ttgaggaggt cttcgctcgct gtctccgctt cttcctgcca taggagagcc 60  
taaggt 66

<210> 47

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 47

ccggacctta ggctctccta tggcaggaag aagcggagac agcgacgaag acctcctcaa 60  
ggtccg 66

<210> 48

<211> 65

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 48

gatccggatg ggaggtgggt ctgaaacgat aatggtgagt atccctgcct aactctattc 60  
actat 65

<210> 49

<211> 65

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 49

ccggatagt aatagagtta ggcagggata ctcaocatta tcgtttcaga cccacctccc 60  
atccg 65

<210> 50  
<211> 67  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 50  
gatcagcatg cctgcaggtc gactctagac ccgggtaccg agctcgccct atagtgagtc 60  
gtattat 67

<210> 51  
<211> 67  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 51  
ccggataata cgactcacta tagggcgagc tcgggtaccg ggtctagagt cgacctgcag 60  
gcattgt 67

<210> 52  
<211> 12  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 52  
tttttttttt tt 12

<210> 53  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 53  
aaaaaaaaaa aaaaaa 15

<210> 54  
<211> 15  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic oligonucleotide

<400> 54  
tttttttttt ttttt 15

<210> 55  
<211> 20  
<212> DNA  
<213> Simian virus 40

<400> 55  
gagtagaccc ttagagagca 20

<210> 56  
<211> 15  
<212> DNA  
<213> Simian virus 40

<400> 56  
gagattccat ttata 15

<210> 57  
<211> 17  
<212> DNA  
<213> Simian virus 40

<400> 57  
acataaaaat ctaagtt 17

<210> 58  
<211> 19  
<212> DNA  
<213> Simian virus 40

<400> 58  
tataaatgga atctctcgt 19

<210> 59  
<211> 19  
<212> DNA  
<213> Simian virus 40

<400> 59  
ctcatctggg attttatgt 19

<210> 60  
<211> 164  
<212> DNA  
<213> Homo sapiens

<400> 60

atacttacct ggcaggggag ataccatgat cacgaagggtg gttttcccag ggcgaggctt 60  
atccattgca ctccggatgt gctgaccctt gcgatttcgc caaatgtggg aaactcgact 120  
gcataatttg tggtagtggg ggactgcgtt cgcgctttcc cctg 164

<210> 61

<211> 191

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic U1  
construct with Anti-A

<400> 61

atacttacct ggcaggggag ataccatgat ccggattgag gcttaagcag tgggttccct 60  
agttagccag agagctccca ggctcagatc tggtgtaatc cggatgtgct gaccctgcg 120  
atttcccaa atgtgggaaa ctcgactgca taatttgagg tagtggggga ctgcgttcgc 180  
gctttccct g 191

<210> 62

<211> 181

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic U1  
construct with Anti-B

<400> 62

atacttacct ggcaggggag ataccatcgg accttgagga ggtcttcgtc gctgtctccg 60  
cttcttcctg cgataggaga gcctaaggtc cggatgtgct gaccctgcg atttcccaa 120  
atgtgggaaa ctcgactgca taatttgagg tagtggggga ctgcgttcgc gctttccct 180  
g 181

<210> 63

<211> 178

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic U1  
construct with Anti-C

<400> 63

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gagtatccct gcctaagtct attcactatc atgtgctgac ccctgcgagt tccccaaatg 120  
tgggaaactc gactgcataa tttgtggtag tgggggactg cgtccgcgct ttcccctg 178